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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/899,208	07/06/2001	Mikio Okzda	Q65355	3580
7990 02/18/2004		EXAMINER		
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			WEINER, LAURA S	
	min Avenue, N.W. C 20037-3213		ART UNIT	PAPER NUMBER

DATE MAILED 02/18/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/899,208	OKADA, MIKIO	
Office Action Summar	Y Examiner	Art Unit	
	Laura S Weiner	1745	
E MAILING DATE OF THIS COMM	visions of 37 CFR 1 (36%). In no award, however, may a		
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#### Statu

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- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) Claim(s) 1-15 is/are pending in the application.
  - 4a) Of the above claim(s) is/are withdrawn from consideration.
  - 5) Claim(s) \_\_\_\_ is/are allowed.
  - 6) Claim(s) 1-15 is/are rejected.
  - 7) Claim(s) \_\_ is/are objected to.
  - 8) Claim(s) are subject to restriction and/or election requirement.

# Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All b) Some \* c) None of:
    - 1. Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage
  - application from the International Bureau (PCT Rule 17.2(a)).
  - \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
  - Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ns) Paper Nois\/Mail Date
- 4) Interview Summary (PTO-413) Paper No(s)/Mail Date
  - Notice of Informal Patent Application (PTO-152)

Application/Control Number: 09/899,208 Art Unit: 1745

#### DETAILED ACTION

# Response to Arguments

 Applicant's arguments with respect to claims 1-15 have been considered but are moot in view of the new ground(s) of rejection.

# Claim Rejections - 35 USC & 102

 Claims 2, 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Saidi et al. (5,976,489) or Sun et al. (6071,489).

Said et al. teaches in column 1, lines 17-25, a lithium battery comprising a negative electrode, a positive electrode and an electrolyte interposed between electrically insulated, spaced apart, positive and negative electrodes. Said et al. teaches in column 4, lines 36-40, that Figure 4 teaches a cathode having lithium manganese oxide active material cycled against a metallic lithium anode. Said et al. teaches in column 14, lines 64-67, that the lithium manganese oxide compound having a spinet unit structure is represented by the formula LixMnaOb where x is 0.9≤x≤1.1, a is 1.9≤a≤2.1 and b is 3.9≤b≤4.1.

 Claims 2, 4, 6, 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Sun et al. (6071,489).

Sun et al. teaches in column 17, lines 23-40, a lithium polymer secondary battery comprising a composite cathode, LixMn2O4 on an aluminum foil, a lithium electrode

Application/Control Number: 09/899,208

and a solid polymer electrolyte between the composite cathode and lithium electrode. Sun et al. teaches in column 16, line 67 to column 17, lines 1-3, that the negative electrode comprised a lithium metal foil. Sun et al. teaches in column 11, lines 45-50, that the composite cathode was Li<sub>1.07</sub>Mn<sub>2</sub>O<sub>4</sub>.

### Claim Rejections - 35 USC § 103

 Claims 1, 3, 9-11, 14, are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Saidi et al. (5,976,489) or Sun et al. (6071,489).

Saidi et al. teaches in column 1, lines 17-25, a lithium battery comprising a negative electrode, a positive electrode and an electrolyte interposed between electrically insulated, spaced apart, positive and negative electrodes. Saidi et al. teaches in column 4, lines 36-40, that Figure 4 teaches a cathode having lithium manganese exide active material cycled against a metallic lithium anode. Saidi et al. teaches in column 14, lines 64-67, that the lithium manganese exide compound having a spinel unit structure is represented by the formula LixMhaOb where x is 0.9≤x≤1.1, a is 1.9≤a≤2.1 and b is 3.9≤b≤41.

Since Saidi et al. teaches a battery comprising a negative electrode, a positive electrode and an electrolyte where the negative electrode, a metallic lithium anode and the positive electrode are connected through the electrolyte then inherently the metallic lithium would be electrically connected to the positive electrode.

In addition, the presently claimed property of metallic lithium electrically connected to the positive electrode would have obviously have been present once the Saidi et al. product is provided. In re Best, 195 USPQ 433 (CCPA 1977).

 Claims 1, 3, 5, 7, 9-15 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Saidi et al. (5,976,489) or Sun et al. (6071,489).

Sun et al. teaches in column 17, lines 23-40, a lithium polymer secondary battery comprising a composite cathode, LixMn2O4 on an aluminum foil, a lithium electrode and a solid polymer electrolyte between the composite cathode and lithium electrode. Sun et al. teaches in column 18, line 67 to column 17, lines 1-3, that the negative electrode comprised a lithium metal foil. Sun et al. teaches in column 11, lines 45-50, that the composite cathode was LineMn2O4.

Since Sun et al. teaches a battery comprising a negative electrode, a positive electrode and a solid polymer electrolyte where the negative electrode, a metallic lithium anode and the positive electrode are connected through the electrolyte then inherently the metallic lithium would be electrically connected to the positive electrode.

In addition, the presently claimed property of metallic lithium electrically connected to the positive electrode would have obviously have been present once the Sun et al. product is provided. In re Best, 195 USPQ 433 (CCPA 1977).  Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S Weiner whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 865-217-9197 (foll-free).

> Laura S Weiner Primary Examiner Art Unit 1745